Louisiana & Arkansas. 1134

Lima Locomotive Works
Incorporated

LIMA, OHIO, U. S. A.

Locomotive Tender

Louisiana & Arkansas

CARD INDEX

Class 9500 Gallon, 8-Wheel. 4000 Gal. Oil

Dept. Engineering.

RRCo's CLASS- E-4-H-23x32-T-548

ORDER No.	SHOP NUMBERS	DATE	DRAUGHTSMAN
C.O. 1134	7641-7642 WITH Booster	1936	ROAD No 561-562
C.O. 1134.	7643. 7644. 7645. Without Booster	1936	ROAD No 563-564-565.
		19	
		19	
		19	

FORM LED 32

1134. L&A.

1134

Index to Classification of Drawings

11 Axles
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Coal Pusher—See 88.
Coupler—See 86.
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54 Headlights and Signal Attachments, Lamps, Electric Wiring, Builders' License and Number Plates.
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Steps—See 53.
82 Tank Valves—Oil and Water, Handles, Well, Goose Neck, Strainer, Hose and Cooler Cocks.
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85 Tender Frames—Front and Back Bumpers.
86 Tender Drawgear—Buffer, Chafing Plate, Coupler and Rigging, Drawhead F. and B.
87 Tender Deck, Tool Box, Water Cooler.
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89 Tender Truck, Bolster and Guides, Spring Seats and Plank.
90 Tender Water Scoop—Arrangements and Details.
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97 Preliminary Designs and Propositions.
98 Clearances and Wheel Base Diagrams.
99 Miscellaneous.

ADDITIONS AND CHANGES

ADDITIONS TO BE MADE IN BLACK INK AND CHANGES IN RED INK

Date	ITEMS	Check	Date	ITEMS	Check
	1.2.5.17.18.19.20	X			
6-10-36	10-57.58.54.22.	X	EA		
6-10-36	12-34.36.39.49.50 38	X	11		
6-10-36	3.43.46.49	X	11		
6-11-36	7-45.47.48.49.50.52.53.54.55.59.60.61	X	11		
6-12-36	8-1.3.25.26	X	11		
6-12-36	11-17	X	11		
6-12-36	11-35.37.38.	X	11		
6-23-36	4-9,-11.13.15.16.17.18	X	11		
6-23-36	5-9-10-36-37	X	11		
6-24-36	10-17.18.	X	11		
6-25-36	10.47.48.50.51.37.38	X	11		
6-25-36	11-1.3.4.8.9	X	11		
6-25-36	3-22.3146.47.48.54.55.52	X	11		
6-26-36	8-24	X	11		
6-26-36	6-22.2324	X	11		
6-30-36	11-47	X	11		
6-30-36	5-9.10.	X	11		
6-30-36	5-14.15.16.17.26	X	11		
7-2-36	13-40.41.14.15	X	11		
7-2-36	10-13.35.36	X	11		
7-3-36	12-46	X	11		
7-6-36	10-30		11		
7-6-36	4-22.23.24		11		
7-6-36	1.2.3.4.5.6.7.8.11.12.13.18.22.23 5-24.25.27.28.29.30.31.32.33.34.35		11		
7-6-36	5-40.41.42.43.44.45.51.52.54.58.59		11		
7-7-36	13-14.15		11		
7-8-36	5-46		11		
7-8-36	5-46		11		
7-9-36	10-37		11		
7-9-36	10-40		11		
7-13-36	10-60.61		11		
7-15-36	5-47.48		11		
7-17-36	12-51		11		
7-17-36	5-4.5		11		
7-23-36	9-30		11 X		
7-28-36	5-24.31		11 X		
8-3-36	3-49		11 X		
8-3-36	3-35		11 X		
8-3-36	9-42.43.		11 X		
8-3-36	12-37		11 X		
8-11-36	5-19		11 X		

Copy of Lock made for Key 4273 Jul

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 11—AXLES								
✓	1	Axle 7641-7642	2	112 A 182	ord	—	—	—	—	—
	2	" 7643-4-5	4	112 A 182	Ord	—	—	—	—	—
	3	" Marking		A.A.R. Std	—	—	—	—	—	—
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13	**GROUP 15—BOLTS AND NUTS**								
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25	**GROUP 17—BOXES, TRUCK**								
✓	26	Box & Lid. 6"x11	4	T.H. Symington Co	ord 7641-7642 Box Pt. P-332 Lid P-314-A	✓	—	—	—	—
	27	" & Lid 6"x11	8	"	" 7643-4-5 " Pt P-332 Lid P-314-A		—	—	—	—
	28	" " Pin	—							
	29	" " Spring	—							
✓	30	" Journal Brass 7641-7642	4	AAR 6"x11	Natl. Bearing Metals Corp. ord	—	—	—	—	—
✓	31	" " Wedge " "	4	" "	Drop Forged ord	—	—	—	—	—
✓	32	" Dust Guard " "	4	" "	The Geo. D. Jenkins Co ord	—	—	—	—	—
	33	" Journal Brass 7643-4-5	8	" "	Natl. Bearing Metals Co ord	—	—	—	—	—
	34	" " Wedge 7643-4-5	8	" "	Drop Forged. ord	—	—	—	—	—
	35	" Dust Guard 7643-4-5	8	" "	The Geo. D. Jenking Co ord	(Type #100)	—	—	—	—
✓	36	" " " Wedges.	1-Set	Wood To suit Journal Box	—	—	—	—	—	—
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45	**GROUP 35—DIE WORK**								
	46									
	47									
	48									
	49									
	50									
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Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 49—GAUGES, TEMPLATES & JIGS								
	1									
	2									
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	15									
	16									
	17									
	18									
	19									
	20									
	21	**GROUP 53—HANDRAIL AND STEPS**								
O	× 22	Handrail	1	864 A 10	Complet	53 B-221	—	—	—	—
	23	"								
	24	" Column	—							
	25	" "	—							
	26	" "	—							
	27	" Ball	—							
	28	" Flange	—							
	29	" "	—							
	30									
O	× 31	Bumper Handle	2	864 A 10	—	53 A 2	—	—	—	—
	32	" "								
O	o 33	Tank " Front	R L 1 1	532-Z-208		532-Z-208	—	—	—	—
O	o 34	" " Rear	R L 1 1	"	—	532-Z-208	—	—	—	—
O	35	" " Oil Tank	1	887 A 30	—	53-D-260	—	—	—	—
	36	" "								
	37									
	38									
	39									
	40									
	41									
	42									
O	× 43	Steps—Front	R L 1 1	532-A 100	Location. See Tender Frame Dwg with Wood Treads.	53-71 53-70	—	—	—	—
	44	Front Step Hanger								
	45	" " Brace								
C	✓ × 46	Steps—Back Corner 7641-42 7643-4-5	2 2	857-A 43 857 B-43	—	53 A 4	—	—	—	—
O	× 47	Back Step Hanger	2	864 A 10	—	53-F-48	—	—	—	—
O	× 48	" " ~~Brace~~ "	2	"	—	53-F-108	—	—	—	—
O	✓ × 49	Tank Step	2 1 ✓	532 A 356	—	—	53-22	—	—	—
	50	" "								
O	o 51	Tank Ladder—Outside	1	532 A-646	—	532 A 646	—	—	—	—
	52	" " —Inside								
O	× 53	Steps, Tender Deck	2 ✓	532 A 8	—	—	53-158	—	—	—
O	o 54	" Rear Footboard	2	864 A 10	2"x11" Oak and	—	—	—	—	—
O	o 55	" " Guard	R L 1 1	"	—	53 A 309	—	—	—	—
O	× 56	" " Riser	2	"	—	½"x 2" x 25-½	—	—	—	—
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS AND SIGNAL ATTACHMENTS								
	1	Signal Fixtures—Location	—							
	2	Flag Socket	—							
	3	Marker Bracket	—							
	4	Lamp Bracket	2 ✓	542 A 15	—	—	54—72	—	54-72	—
	5	" ~~Hook~~ Liner	2	"	3/16" Plate					
	6	Pail Hook	—							
	7	Headlight Bracket	—							
	8	" Shelf	—							
	9	Back Up Lamp	1	543 A 111	Pyle-National	TSLC-228-S Print 1936 D ord	—	—	—	
	10	License Plate	—							
	11	Ownership Plate	2 ✓	542 A 663	Locate on Outside Channels Near Center	—	—	—	54-707	—
	12	Patent "	—							
	13	Marker Lamp	2		Pyle Natl. MLBR-15. ord		—	—	—	—
	14	Back Up Lamp Liner	2	542 D-503	With Studs	—	—	—	—	—
	15	Electrical Material		54 M 0.148	—	—	—	—	—	—
	16	Tender Electric Wiring		543 A 111	—	—	—	—	—	—
	17	" Conduit Clamps	8	"	—	63 T-63	—	—	—	—
	18	" Receptacle Bracket	2	542 A 552	With Studs as Shown	—	—	—	—	—
	19									
	20									
	21	**GROUP 57—LAGGING AND JACKET**								
	22	Steam Pipe Lagging Booster 7641-42	1-Set	640 A 114	Lagging Ord	2-Tenders	—	—	—	—
	23	" " " . Insul. Tape St. Heat		640 B-114	5-Tenders	—	—	—	—	—
	24	" " Jacket Booster St. Line	1-Set	640 A-114	Matl. Ord	2-Tenders	—	—	—	—
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33	**GROUP 59—OIL AND GREASE CUPS**								
	34	Truck Oil Cup								
	35	" " " Cap								
	36									
	37	Stoker Oil Cup	—							
	38	" " " Cap	—							
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47									
	48									
	49	**GROUP 61—PA'TING, LET'RING & NUM'G**								
	50	Tender Lettering								
	51									
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		63 Pipe Fittings & Clamps GROUP ~~62~~ ~~PILOT AND SNOW PLOW~~								
	1	~~Pilot~~ Pipe Support 7641-42	2	640 A 114		63-U-28 ✓	—	—	—	—
	2	~~" Band~~ " " 7641-42	1	"	2"x2"x¼" Angle	— ✓	—	—	—	—
	3	~~" Brace~~ " Clamp 7641-42	3	"	—	63 A-216 ✓	—	—	—	—
	4	~~" "~~ " Support 7641-42	~~2~~ 3	"	—	63-F-329 ✓	—	—	—	—
	5	~~" Bottom Plate~~ " Clamp 7641-42	~~4~~ 5	"	—	63-A-337 ✓	—	—	—	—
	6	~~" Bracket~~ " Manifold Supt. 7641-42	1	632 B-1090	—	632 B-1090 ✓	—	—	—	—
	7	~~" Corner Iron~~ " Support. 7641-42	1	632 A-1090	With Pipe Thimbles as Shown	632 A-1090 ✓	—	—	—	—
	8	~~" Knee~~ " " 7641-42	1	632 C-1090	—	632 C-1090 ✓	—	—	—	—
	9	Booster Steam Pipe Flange 7641-42	2	632 A 151	—	— ✓	—	63-325	—	—
	10	" " " Joint Ring 7641-42	1 ✓	792 D-147	—	— ✓	79-724	—	—	—
	11	" Timmy Res. Support 7641-42	1	640 A-114	—	63-B-214 ✓	—	—	—	—
	12	" " " Clamps 7641-42	2	"	—	63-A-343 ✓	—	—	—	—
	13	~~Snow Plow~~ Pipe Support 7641-42	1	"	—	63-B-338 ✓	—	—	—	—
	14	Oil Heater Pipe Clamps	3	644 A 62	—	63 A 105	—	—	—	—
	15	" " " "	2	"	—	63-D-63	—	—	—	—
	16	" " " Support	2	"	⅜" Plate with Extensions as Shown ord	—	—	—	—	—
	17	" " Globe Valves	1-Set	"	—	—	—	—	—	—
	18	Pipe Protecting Ring 7641-42	1	640 A 114	1" Dia. Matl. 4½ I.D Welded to pipe	—	—	—	—	—
	19	Open Heater Disc.	1	1¾" Dia Thin Brass. Stenciled "Open Heater"		—	—	—	—	—
	20									
	21	GROUP 63—PIPE FITTINGS AND CLAMPS								
	22	~~Box Cooler Hose~~ Pipe Clamp 2"	1	640 B-114	—	63 K-285 ✓	—	—	—	—
	23	" " ~~Fitting~~ " " 2"	1	"	—	63-L-285 ✓	—	—	—	—
	24	~~" " " Nut~~ " " U. Bolt	~~2~~ 3	"	—	63-H-33 ✓	—	—	—	—
	25	~~" " " Swivel~~ " " U. Bolt	1	"	—	63-K-233 ✓	—	—	—	—
	26	Pipe Flange	1 ✓	632 D-400	—	—	—	—	63-719	—
	27	" Clamp U Bolt 1¼"	1	640 B-114	—	63-B-98 ✓	—	—	—	—
	28	Pipe Clamp U. Bolt ¾	1	"	—	63-B-233 ✓	—	—	—	—
	29	" "	3	"	—	63-B-240 ✓	—	—	—	—
	30	" "	2	"	—	63-H-63 ✓	—	—	—	—
	31	" Hanger	~~2~~ 2	"	—	63-B-7 ✓	—	—	—	—
	32	" Hanger	2	"	—	63 B-329 ✓	—	—	—	—
	33	" "	2	"	—	63-P-28 ✓	—	—	—	—
	34	" "	2	"	—	63-P-220 ✓	—	—	—	—
	35	" " St. Heat & Water Line	1	"	4"x4"x½" Angle	— ✓	—	—	—	—
	36	" Manifold ~~Air Brake~~ ¾" Heater Line	1 ✓	632 A-1005	—	—	63-1207	—	—	—
	37	" " 2 - Oil Line	1 ✓	632 A-287	—	—	63-16	—	—	—
	38	" " Support								
	39	" " "								
	40	" Angle Cock Holder	1	632 A 1091	—	632 A 1091 ✓	—	—	—	—
	41	~~Water Joint Support~~ " Clamp U. Bolt	1	640 B-114	—	63 M-33 ✓	—	—	—	—
	42	Aux Water Line Gate Valve	1	"	2½" ord	—	—	—	—	—
	43	" " " Pipe Flanges	2	"	2½" Ex Hvy ord	—	—	—	—	—
	44	Pipe Hanger	1	"	—	63 X-28	—	—	—	—
	45	" "	1	"	—	63-L-28	—	—	—	—
	46	" Elbows. (Booster St. Line) 7641-42	~~3~~ 4	632 A 1092	—	—	—	63-1275	—	—
	47	Gate Valve Ext. Rod	1	632 A 1094	—	632 A 1094	—	—	—	—
	48	" " " " Clamp	1	640 B 114	—	63-A-345	—	—	—	—
	49									
	50	GROUP 64—PIPING ARRANGEMENTS								
	51	Piping Arrangement Tender Booster		640 A 114	Pipe ord	—	—	—	—	—
	52	Oil Heater Piping		644 A 62	¾" Ex Hvy Pipe	—	—	—	—	—
	53	Sprinkler Piping								
	54	Piping Arrangement. Air Brake		640 B-114	Pipe ord	—	—	—	—	—
	55	Steam Heat Piping		"	—	—	—	—	—	—
	56									
	57	Coal Pusher Piping								
	58	Piping Arrgt. Bot. Eng. Tender 7641-42		648 A 60	—	—	—	—	—	—
	59	" " " " " 7643-4-5		648 B-60	—	—	—	—	—	—
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 66—PLUGS, HANDHOLES AND WASHOUTS								
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9	**GROUP 71—RUN'G BOARDS & BRACK'TS**								
	10	Running Board	—							
	11	" "	—							
	12	" " Bracket	—							
	13	" " "	—							
	14	" " "	—							
	15	" " "	—							
	16									
	17									
	18									
	19									
	20									
	21	**GROUP 73—SAND BOX AND RIGGING**								
✓	22	Sand Box	1	732 A 193	1/8" Plate- ord	—	—	—	—	—
✓	23	" " Bracket	2	"	—	73 A 67	—	—	—	—
✓	24	" " ~~Handle~~ Hinges	2	"	3" Strap. Ord	—	—	—	—	—
	25									
	26									
	27									
	28									
	29	**GROUP 76—SPRINGS**								
✓	30	Truck Spring 7641-7642 Rear Outs	2	762 B-6	ord.	—	—	—	—	—
✓	31	" " 7643-4-5 F. & R.	4	762 B-6	Ord.	—	—	—	—	—
	32	" " Clip	—							
	33	" " End Block	—							
	34	Buffer Spring	—							
	35	Coupler Spring	—							
	36	Draw Spring	—							
	37	" "	—							
	38	Water Scoop Spring	—							
	39	" " "	—							
	40	Brake Beam Leveling Spring								
	41									
	42									
	43									
	44									
	45									
	46	**GROUP 80—STOKER AND DETAILS**								
	47									
	48									
	49									
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	61									

(Group 80 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 80—STOKER AND DETAILS (Cont.)								
	1									
	2									
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	42									
	43									
	44	**GROUP 82—TANK VALVES AND COCKS**								
	o 45	Tank Valve	2 ✓	822-D-57	—	—	—	—	82-184	—
	46	" " Body								
	47	" " Seat	2	822 A 56	—	—	—	82-179	—	—
	48	" " ~~Shaft~~ Ring	2 ✓	"	—	—	—	—	82-180	—
	o 49	" " " Drain Plugs	4	"	—	—	—	—	Stock	—
	o 50	" " Rod	2	822 A 194	—	822 A 194	—	—	—	—
	o 51	" " ~~Lift~~ Stuffing Box	2 ✓	822 A 43	Style # 1 Bottom of Tool Closet	—	82-178	—	—	—
	o 52	" " Handle	2 ✓	822 A 54	—	—	—	82-183	—	—
	o 53	" " Gland	2 ✓	822 D-43	—	—	—	—	82-176	—
	o 54	" " Goose Neck	2 ✓	822 A 32	—	—	—	—	82-210	—
	o 55	" " Nut	2 ✓	822 B-82	—	—	—	—	82-71	—
	o 56	" " ~~Sleeve~~ Gland	2 ✓	822 A 43	—	—	—	—	82-176	—
	57	" " Hose Nut								
	58	" " " Swivel								
	o 59	Tank Valve Flange Top	2 ✓	822 D-43	Style # 2	—	82-178	—	—	—
	60	" " " Ring Bottom	2 ✓	822 A 52	—	—	82-181	—	—	—
	o 61	" " Strainer	2	822 A-193	Sheet Copper # 18 BWG. Old Punched to Cd 822 A 6		—	—	—	—

(Group 82 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VAL. AND COCKS (Cont.)								
P	1	Tank Well	2	822 A 53	3/8 Plate	—	—	—	—	—
	2	" " Plug	—							
P	3	" ~~Syphon~~ Valve Arrgt		822 A 193						
	4	" " Pipe Support	—							
	5	" " Brace	—							
P	6	" Valve Pin	2	822 A 193	—	82 A 50	—	—	—	—
	7									
	8									
✓	9	Oil Tank ~~Plug~~ Valve Stem Guide	1 ✓	824 A 7	—	—	82-290	—	—	—
✓	10	" " Valve	1 ✓	"	—	—	—	—	82-222	—
✓	11	" " " Seat	1 ✓	"	—	—	82-220	—	—	—
✓	12	" " " Rod Top	1	"	5/8" Dia. Length to Suit	—	—	—	—	—
✓	13	" " " ~~Arm~~ " Bottom	1	"	5/8" 26 3/8" Long	—	—	—	—	—
✓	14	" " " ~~Gland~~ " Conn	1	"	1 3/8" Dia 3" Long	—	—	—	—	—
✓	15	" " " Handle	1 ✓	"	—	—	82-223	—	—	—
✓	16	" " " Nut	1 ✓	"	—	—	—	—	82-221	—
✓	17	" " " ~~Sheave~~ Emergency Screw	1	"	5/8" Dia.	—	—	—	—	—
✓	18	" " " ~~Drum~~ Cable	1	"	3/16 Flexible Wire cable With Pin as Shown	—	—	—	—	—
✓	19	" " " Rod ~~Seat~~ Spring	1	"	#11- Brass Wire, ord.	—	—	—	—	—
	20	" " " Stuffing Box	—	"						
✓	21	" " " " " Nut	1 ✓	"					82-225A	
✓	22	" " " " " ~~Gland~~ Washer	1	"	1/8" Thick 1 1/16 Dia	—	—	—	—	—
	23	" " " Rod End	—							
	24	" " Measuring Rod	1	822 A 195	Polished & Stamped	—	—	—	—	—
	25	~~Oil Tank Cock~~ " " Handle	1 ✓	823 A 3	—	—	82-228	—	—	—
	26	" " " ~~Cap~~ " Flange	1 ✓	"	—	—	82-227	—	—	—
	27	" " " Plug	—							
	28	" " " Nut	—							
	29	" " " Washer	—							
	30	" " " Handle	—							
	31	Tank Cock	1 ✓	822 C-65	—	—	—	—	82-165	—
	32	" " Plug	1 ✓	"	—	—	—	—	82-166	—
	33	" " Nut	2	"	7/8" Hex	—	—	—	—	—
	34	" " Washer	1	"	—	—	—	—	Stock	—
	35	" " Handle	—							
	36	" " Flange	—							
	37	" " Rod	—							
	38	" " Stuffing Box	—							
	39	" " " " Gland	—							
	40	" " " " Nut	—							
	41	Box Cooler Valve	—							
	42	" " " Cap	—							
	43	" " " Stem	—							
	44	" " " Gland	—							
	45	" " " Nut	—							
	46	" " " Handle	—							
	47	" " " Coupling Nut	—							
	48	" " " Swivel	—							
	49	GROUP 84-TENDER BRAKE 7641-42		843 A 34	Two Tenders	—	✓	—	—	—
	50	GROUP 84—TENDER BRAKE Arrgt 7643-4-5		843 A 35	Three Tenders	—	✓ —	—	—	—
	51	Frame Body Brake Arrangement	—							
	52	Body Brake Lever 7641-42	1	842 A 126	✓ —	842 A 126	✓			
	53	" " " 7643-4-5	1	842 B-126	✓ —	842 B-126	✓ —	—	—	—
	54	" " " Support 7641-42	2	842 C-126	✓ —	842 C-126	—	—	—	—
	55	" " " " " 7641-42	1	842 E-124	✓ —	842 E-124	✓			✓
	56	" " Connecting Rod Cyl.	2	842 C 124	✓ —	842 C 124	✓			✓
	57	" " Trk. " " 7641-42	1	842 A 51	—	842 A 51	✓ —	—	—	—
	58	" " Equalizer Lever 7641-42	1-L	842 A 84	✓ —	842 A 84	✓			
	59	" " ~~Fulcrum~~ Lever Support 7641-42	1	842 W- 26	✓ —	842 W-26	✓ —	—	—	—
	60	" " Rod 7641-42	2	842 D-124	✓ —	842 D-124	✓ —	—	—	—
	61	" " ~~Clevis~~ Rod Trk. Conn. 7641-42	1	842 F-80	✓ —	842 F-80	✓ —	—	—	—
			2	842 E-51	✓ —	842 E-51	✓ —	—	—	—

(Group 84 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 84—TENDER BRAKE (Cont.)								
	1	Body Brake ~~Sheave~~ Lever ~~7643-4-5~~	2	842-C-126	—	842-C-126	✓ —	—	—	—
	2	" " Lever Support 7643-4-5	1	842-H-124	✓ —	842-H-124	✓ —	—	—	— ✓
	3	" " ~~Shaft~~ " 7643-4-5	1	842-F-124	✓ —	842 F-124	✓ —	—	—	— ✓
	4	" " " ~~Cap~~ " 7643-4-5	1	842-C-124	✓ —	842 C-124	✓ —	—	—	— ✓
	5	" " " ~~Hanger~~ " 7643-4-5	1	843 A 35	✓ —	84-D-121	✓ —	—	—	— ✓
	6	" " ~~Trk. Stee~~ Conn Rod 7643-4-5	1 R 1-L	842 A 84	✓ —	842 A 84	✓ —	—	—	—
	7	" " " Wheel	—							
	8	" " " Handle	—							
	9	" " " Pawl	—							
	10	" " " " Plate	—							
	11	" " " Ratchet	—							
	12	" " " Weight	—							
	× 13	" " Cylinder 7641-42	1	843-A 34	16"x12" Type L W.A.B. ord		✓ —	—	—	—
	14	" " " ~~Head~~ 7643-4-5	1	843 A-35	16"x12" Type L W.A.B. ord		✓ —	—	—	—
	15	" " " Support 7643-4-5	1	"	~~Malt.~~ ord	84 C-24	✓ —	—	—	—
	16	" " " Support 7641-42	1	843 A 34	Malt. ord	84-C-24	✓ —	—	—	—
	17	" " Pins	2	842-F-38	Fr. Conn Rod	—	—	—	—	—
	18	" " "	1	842-B-38	Cyl. ~~Push~~ Rod	—	—	—	—	—
	19	" " " Trk End 7641-42	1	842-D-37	Tr End. Conn Rod R	—	—	—	—	—
	20	" " " " 7641-42	4	842-S-42	" " " " F	—	—	—	—	—
	21	~~Tender Brake Piston~~ 7641-42	2	842 H-37	Equl. —					
	22	" " " Follower	—							
	23	" " " Ring	—							
	24	" " " Rod	1	842 K-36	—	842 K-36	—	—	—	—
	25	Brake Reservoir Hanger	—							
	26	" " Strap	—							
	27	Hand Brake Arrangement	—							
	28	Body " ~~Rod~~ Pins 7643-4-5	2	842-D-37	Tr. End Conn Rod	—	—	—	—	—
	29	" " " " "	2	842-H-37	Cyl lever to Conn Rod	—	—	—	—	—
	30	" " "	1	842-V-37	Cyl. Jaw.	—	—	—	—	—
	31	" " "								
	32	" " "								
	33									
	34	Truck Brake 7641-42		894 A 13	Rear Only	—	—	—	—	—
	35	Truck Brake 7643-4-5		894 A 13	F x Rear	—	—	—	—	—
	36	" " Beam 7641-42 R	1	"	Hercules #108½" With Head # BB-1584, A.S.F ord	—	—	—	—	—
	37	" " 7643-4-5 R	2	"	" " " " BB-1584 A.S.F. ord	—	—	—	—	—
	38	" " " Support 7641-42	4	842 A 2	—	842 A 2	—	—	—	—
	39	" " " Support 7643-4-5	8	"	—	842 A 2	—	—	—	—
	× 40	" " " Safety ~~Chain~~ Bar 7641-42	2	894 A 13	—	89 A 7	—	—	—	—
	× 41	" " " " Bar 7643-4-5	4	"	—	89 A 7	—	—	—	—
	42	" " " Leveling Eyebolt 7641-42 / 7643-4-5	2 / 4	"	—	84 A 133	—	—	—	—
	43	" " ~~Head~~ " Brkt 7641-42 / 7643-4-5	2 / 4	"	—	84 B-85	—	—	—	—
	44	" " Shoe 7641-42 / 7643-4-5	8	A.A.R.	A.B.S. & Fdry Co ord	—	—	—	—	—
	45	" " " Key 7641-42 / 7643-4-5	4 / 8	A.A.R.	ord	—	—	—	—	—
	46	" " Beam Support Pins 7641-42 / 7643-4-5	4 / 8	894 A-13	—	84 A 42	—	—	—	—
	47	" " Lever 7641-42 / 7643-4-5	1 / 2	842 A 19	—	842 A 19	—	—	—	—
	48	" " " Guide	—							
	49	" " Dead Lever 7641-42 / 7643-4-5	1 / 2	842 T-19	—	842 T-19	—	—	—	—
	50	" " " " Anchor 7641-42 / 7643-4-5	1 / 2	894 A 13	—	84 A 3	—	—	—	—
	51	" " " " " Lug 7641-42	1 / 1	842 A 1	—	—	—	84-7 R	—	—
	52	" " Lever Rod 7641-42 / 7643-4-5	2	842 B-14	—	842 B-14	—	—	—	—
	53	" " " "	—							
	54	" " Pins 7641-42 / 7643-4-5	2 / 4	842 Y-37	Brake Beam	—	—	—	—	—
	55	" " " 7641-42 / 7643-4-5	4 / 8	842 A-38	Dead Lever	—	—	—	—	—
	56	" " " 7641-42 / 7643-4-5	2 / 4	842 D-37	Bottom Rod	—	—	—	—	—
	57	" " Dead lever Anchor Lug 7643-4-5	1 / 1	842 A 1	—	—	—	84-7-R / 84-8-L ✓	—	—
	58									
	59									
	60									
	61									

For Booster Truck Brake See Page-15.

In future watch Clearance 1134 Over Booster Truck (2") Required

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 85—TENDER FRAME								
C	o 1	Frame 7641-42	1	859 A 43	85 M O-24	—	—	—	—	—
C	o 2	" ~~Center Sill~~ 7643-4-5	1	859 B-43	85 MO-24	—	—	—	—	—
	3	" Side Sill	—							
	4	" End Sill	—							
C	o 5	" Corner Angle 7641-2 / 7643-4-5	4 / 4	859 A 43 / 859 B-43	6"x6"x 3/4" Angle 10" Long		—	—	—	—
	6	" " Bracket	—							
	7	" " Knee	—							
	8	" Brace	—							
	9	" "	—							
	10	" "	—							
C	o 11	" Filling	4	852 A 80	—	—	—	85-84 A	—	—
	12	" "	—							
C	13	" Bevel Washers	1-Set	To suit Shop						
C	o 14	" Bolster Filling Rear R / L	4 / 4	852 B-30	7/16" Plate ord	These	to be Changed		—	—
C	o 15	" " ~~Angle~~ " Front R / L	4 / 4	852 A-79	7/16" " ord	—	—	—	—	—
	16	" " Plate	—							
C	vo 17	" " Truss Bar Front 7641-2 / 7643-4-5	2 / 2	859 A 43 / 859 B-43	3/4 Plate Matl. ord	85 A 62	—	—	—	—
C	o 18	" " " ~~Brace~~ Rear 7641-2 / 7643-4-5	2 / 2	859 A 43 / 859 B-43	"	85 A 63	—	—	—	—
C	o 19	" " " Plate Front 7641-2 / 7643-4-5	2 / 2	859-A 43 / 859 B-43	"	85 A 61	—	—	—	—
C	o 20	" " " " Rear 7641-2 / 7643-4-5	2 / 2	859 A 43 / 859 B-43	"	85-C-20	—	—	—	—
	21	" " Tie Plate	—							
C	o 22	" Center Plate	2	852 B-32	—	—	—	85-83 A	—	—
C	x 23	" Side Bearing	4	852 A 81	—	—	—	85-123	—	—
	24	" " "	—							
	25	Push Pole	—							
	26	" " Collars	—							
	27	" " Pocket	—							
	28	" " Support	—							
	29	" " Stop	—							
C	30	Wrecking Frog Brackets	4	852 A 82	—	852 A 82	—	—	—	—
	31	Switch Rope Hooks	—							
	32	Check Chain	—							
	33	" " Pocket	—							
	34	" " Hook	—							
C	35	Tender Floor	1	859 A x B-43	1 1/4" Yellow Pine ord	—	—	—	—	—
C	36	" " Edge	1	"	1 3/4" x 1 3/4" x 1/4" Angle ord.	—	—	—	—	—
C	o 37	Bumper—Front	1	G.S.C. 51301-D ~~Cast Stl. Cstgs Co Pl # 51301~~		ord	—	—	—	—
C	o 38	" —Back	1	" 51302 D ~~" " " Pl # 51302 D~~		ord	—	—	—	—
	39	Tender Floor Anchor								
C	40	Draw Bar Pin Bushings	3	G.S.C. 51301 E	Case Hardened & Pressed in.		—	—	—	—
	41									
	42									
	43									
	44									
	45									
	46									
C	o 47	**GROUP 86—TENDER DRAWGEAR**	1	864 A 10	Cardwell-Westinghouse Type N.Y.-1-E ord		—	—	—	—
C	o 48	Coupler	1	"	A.S.F. Type E 07261-D ord		—	—	—	—
	o 49	" Pocket	—	"						
C	o 50	" Followers	1	"	2 1/4" x 9" x 12 1/2"		—	—	—	—
C	o 51	" Yoke	1	"	Buckeye Steel Cstgs Co B-3343-A	ord	—	—	—	—
	52	" " Filler	—							
	o 53	" Follower Guide	—							
C	x 54	" Carry Iron	1	862 A 17	with 3/4" x 4" x 9" Stl. Wearing Plate	—	—	86-47	—	—
	55	" Chain	—							
	56	" " Clevis	—							
C	o 57	Drawbar Pin	1	862 E-29	Matl. Ord	862 E-29	—	—	—	—
C	x 58	" " ~~Support~~	1	372 P-10	3/4" Plate	372 P-10	—	—	—	—
	59	Safety Chain Pin	—							
C	60	Draft Gear ~~Check Casting~~ Key Retainer	1	862 D-66	—	862 D-66	—	—	—	—
C	61	" " Key	1	862 B-74	State 1	862 B-74	—	—	—	—

Watch Clearance Over Booster

(Group 86 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 86—TENDER DRAWGEAR (Cont.)								
✓	1	Draft Gear Carrier	1	864 A 10	3/4" x 14 1/2" x 24"	—	—	—	—	—
	2	Drawhead Brace								
	3	Uncoupling Shaft RL	1 1	"		86-D-97 86-C-97	—	—	—	—
	4	" " Arm	1	"	Drill for cotters	86 A 98	—	—	—	—
	5	" " Bracket	4	372 M-111	—	—	—	37-433	—	—
	6	" " " Filler	4	372 L-111	—	—	—	37-434	—	—
	7	" " ~~Handle~~ " Filler Bolts	4	1/2" Bolts With Nuts Riveted over			—	—	—	—
	8	" " ~~Cap~~ Lifter Plate	1	864 A 10	N. M. St. Cstgs Co Print #13182 Ord		—	—	—	—
	9	Lock Lifter	1	"	—	86 B-99	—	—	—	—
	10	Draw Casting—Front	—							
	11	" " —Back	—							
	12	Safety Chain	—							
	13	" " Clevis	—							
	14	" " Staple	—							
	15	" " Washer	—							
	16									
	17	Chafing Casting 7641-2 7643-4-5	1 1	859 A 43 859 B 43	F.R.S. Type E. Pt. D-47455	—	—	—	—	—
	18	" Iron	—							
	19	Spring Buffer	—							
	20	" " Case	—							
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34	**GROUP 87—TENDER DECK AND TOOL BOX**								
✓	35	Tender Deck	1	873 A 34	Plate ord	—	—	—	—	
	36	" " Shovel Plate	—							
✓	× 37	" " Support, Outside RL	1 1	"	9/16" Plate ord	—	—	—	—	—
✓	× 38	" " " Inside RL	1 1	"	5/16" " & Angles	—	—	—	—	—
	39									
	40									
	41	Tool Box	—							
	42	" "	—							
	43	" " Handle	—							
	44	" " "	—							
	45	" " Brace	—							
	46	" " "	—							
P	47	" Closet Eyebolt	2	889 A-B 49	—	88-B-196	—	—	—	—
	48	" Closet Hinge	—							
	49	" " " Lug	—							
	50									
	51									
	52									
	53	Water Cooler	—							
	54	" " Base	—							
	55	" " Top	—							
	56	" " Lid	—							
	57	" " Casing	—							
	58	" " Cock	—							
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 88—TENDER TANK								
	1	Tank—Water 7641-42	1	889 A 49	9500 Gallon	—	—	—	—	—
	2	" Material Bill		88 M0-127	—	—	—	—	—	—
	3	" ~~Brace~~ Water 7643-4-5	1	889 B-49	9500 Gallon	—	—	—	—	—
	4	" ~~Knee~~ Aux. Hose Conn. Flange	1	889 A/B-49	2½" Ex Hvy Cast Iron Std	—	—	—	—	—
	5	" Lifter Iron	—							
P	6	" Drain Pipe	2	889 A/B 49	3" Ex Hvy Pipe Std	—	—	—	—	—
	7	" " " Flange	4	"	3" " " Cast Iron Std	—	—	—	—	—
	8	" " " "	—							
	9	" Fuel Rack	—							
C	10	" ~~Tool Hook~~ Lug	4	882 A-140	—	882 A 140	—	—	—	—
G	11	" Lug	4	882-F-66	—	—	—	88-85	—	—
G	12	" "	2	882-H-66	—	—	—	88-85	—	—
G	13	" Funnel	1	882 B-69	3/16" Plate. Std	—	—	—	—	—
G	14	" " Lid	1	"	3/16" " Std	—	—	—	—	—
G	15	" " Hinge	2	882 B-68	—	—	—	88-94	—	—
G	16	" " " Lug	2	882 B-40	—	—	—	88-40	—	—
P	17	" " Handle	1	882 A 1	—	—	—	88-8	—	—
	18	" " Screen	—							
	19	" Coal Gate	—							
	20	Coal Gate Angle	—							
	21	" " Catch	—							
	22	" " Latch	—							
	23	" " Hinge	—							
	24	" " " Lug	—							
	25	" " Chain	—							
	26	" " Eyebolt	—							
	27	" " Slide Clamp	—							
	28	" " Catch Bracket	—							
	29	" " Handle	—							
	30									
	31	Tank Cut Out for Stoker	—							
	32									
	33									
P	34	Tank—Oil	1	887 A 30	4000 Gallon	—	—	—	—	—
G	35	" Material Bill		88 M 0128	—	—	—	—	—	—
P	36	" ~~Brace~~ Grab Irons, 14 Tank	4	887 A 30	—	53 A 2	—	—	—	—
P	37	" Lifter Iron	2	"	—	88 A-206	—	—	—	—
G	38	" Lug	2	882 D-140	—	882 D-140	—	—	—	—
P	39	" Heater	1	887 A 30	¾" Ex Hvy Pipe	—	—	—	—	—
G	40	" Funnel	1 ✓	883 A 3	—	—	88-41	—	—	—
G	41	" " Lid	1 ✓	"	—	—	88-42	—	—	—
G	42	" " ~~Hinge~~ Vent Cap	1 ✓	"	—	—	88-43	—	—	—
G	43	" " ~~Lug~~ Eyebolt	4	"	—	88 A 14	—	—	—	—
G	44	" " ~~Screw~~ Clamp	4	"	—	88 A 15	—	—	—	—
G	45	" " Handle	1	"	—	88 A 103	—	—	—	—
P	46	" " ~~Gasket~~ Hinge Bolt	1	"	⅝" – 15¾" Long	—	—	—	—	—
G	47	" " Screen	1	883 A 5	3 x 3 Mesh #14 BWG Wire Netting	—	—	—	—	—
G	48	" " " Eyebolt	1	"	—	88 B-54	—	—	—	—
G	49	" Heater Support	3	887 A 30	2½ x 2½ x ⅜ Angle 40" Long		—	—	—	—
P	50	~~Coal Pusher~~ " Clamp	3	"	½" x 2" x 40" Bar	—	—	—	—	—
P	51	Oil Tank Foundation & Blocking		884 A 13	Wood. Matl. Ord	—	—	—	—	—
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 89—TENDER TRUCK								
	01	Truck . 6 x 11" 7641-42	1	894 A 13	Rear Only	—	—	—	—	—
	02	" ~~Arch Bar~~ 6"x 11 7643-4-5	2	894 A 13	Front & Rear	—	—	—	—	—
	03	" Tie ~~Truss~~ Bar 7641 - 7642	4	"	—	3/4" x 6" x 21 3/4"	—	—	—	—
	04	" Tie Bar 7643-4-5	8	"	—	3/4" x 6" x 21 3/4"	—	—	—	—
	05	" ~~Column~~ Ctr Plate 7643-4-5	2	892 A 1	—	—	—	89-18	—	—
	06	" "	—							
	07	" Bolster 7641-7642	1	894 A 13	O.S.F. Pt. B367 Ord	—	—	—	—	—
	08	" " ~~Guide~~ 7643-4-5	2	"	" " B367 Ord	—	—	—	—	—
	09	" " Bar	—							
	10	" " Cap	—							
	11	" " Truss Rod	—							
	12	" " " " Washer	—							
	13	" Center Plate 7641-42	1	892 A 1	—	—	—	89-18	—	—
	14	" King Bolt	2	892 B-79	—	892 B-79				
	15	" " " Keys	2	"	5/8 x 2 1/4" x 5" Plate	~~892 B-79~~	—	—	—	—
	16	" Spring Plank 7643-4-5 7641-42	1	892-E-2	3/8" Plate Ord	—	—	—	—	—
	17	" " Seat—~~Top~~ Bottom. 7641-42	4	894 A 13	1/4" x 4" x 16 1/2" Plate	—	—	—	—	—
	18	" " " —Bottom 7643-4-5	8	"	1/4" x 4" x 16 1/2 "	—	—	—	—	—
	19	" " Hanger	—							
	20	" ~~King Bolt~~ ~~7643-4-5~~	—							
	21	" " " " ~~Cib. Keys 7643-4-5~~	—							
	22	" Side Bearing 7641-42	2	892 A 62	—	—	—	89-210	—	—
	23	" " " ~~Block~~ 7643-4-5	4	"	—	—	—	89-210	—	—
	24	" Frame 7641-42	2	894 A 13	O.S.F. Pt. B-387-E Line 2 Ord	—	—	—	—	—
	25	" " ~~Brace~~ 7643-4-5	4	"	" " B-387-E " 2 Ord	—	—	—	—	—
	26	" " Crosstie	—							
	27	" Pedestal	—							
	28	" "	—							
	29	" " Cap	—							
	30	" " " Tie	—							
	31	" Equalizer	—							
	32	" "	—							
	33	" Swing Frame	—							
	34	" " Link	—							
	35	" " Pins	—							
	36	" Check Chain	—							
	37	" " " Bolt	—							
	38	" " " Clevis	—							
	39	" " " Pocket	—							
	40	" Side Bearing Arrgt. Booster 7641-2		892 B-156	—	—	—	—	—	—
	41	" Side " " " 7641-2	2	"	5/8" x 5" x 12" Hardened Steel	—	—	—	—	—
	42									
	43	Booster Truck built								
	44	on R. Order 16878								
	45									
	46									
	47									
	48									
	49									
	50									
	51									
	52									
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	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 90—TENDER WATER SCOOP								
	1	Water Scoop	—							
	2	Scoop Cylinder	—							
	3	" " Head	—							
	4	" " "	—							
	5	" " Gland	—							
	6	" " Support	—							
	7	" " "	—							
	8	" Piston	—							
	9	" " Follower	—							
	10	" " Rings	—							
	11	" " Rod	—							
	12	" " " Jaws	—							
	13	" " " Extension Links	—							
	14	" Inside Pipe	—							
	15	" Outside Pipe	—							
	16	" Air Pipe Casing	—							
	17	" Neck	—							
	18	" Splash Hood	—							
	19	" Dipper	—							
	20	" " Link	—							
	21	" " Lifter	—							
	22	" " Nose	—							
	23	" " Shield	—							
	24	" " " Brackets	—							
	25	" Shaft	—							
	26	" " Fulcrum	—							
	27	" Bell Crank	—							
	28	" Arm	—							
	29	" Spring Cap	—							
	30	" " Rod	—							
	31	" " Seat	—							
	32	" " " Support	—							
	33	" Jaws	—							
	34	" Rods	—							
	35	" Lever	—							
	36	" Link	—							
	37	" Bracket	—							
	38	" Brace	—							
	39	" Pipe Hanger	—							
	40	" Joint Piece	—							
	41	" " " Trunion Cap	—							
	42	" " " " "	—							
	43	" " " Lifting Links	—							
	44	" " " " "	—							
	45	" Delivery Pipe Hanger	—							
	46	" " " " Clamp	—							
	47	" " " " Clips	—							
	48	"								
	49	"								
	50	" Operating Valve	—							
	51	" " " Cap	—							
	52	" " " Plug	—							
	53	" " " Nut	—							
	54	" " " Handle	—							
	55	" " " Quadrant	—							
	56	" " " Spring	—							
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 95—WHEELS AND TIRES								
✓	1	Truck Wheel 33" 7641-7642	4	Standard Steel Wks		ord				
	2	Wheel Pressed on Axle (Tons)		80 Tons Min. 120 Tons Max		—	—	—	—	—
	3	Wheel Center	—							
	4	" Tire	—							
	5	Tire Retaining Ring	—							
	6	Wheel Numbers	—							
	7	Truck Wheel, 33" 7643-4-5	8	Standard Steel Wks		ord				
	8									
	9									
	10									
	11									
	12									
	13									
	14									
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	22									
	23									
	24									
	25									
	26	**GROUP 99—MISCELLANEOUS**								
	27	Booster Truck Brake Arrgt 7641-2		844-B-4	—	—	—	—	—	—
	28	Brake Head "	4	842-A-123	—	—	—	84-62	—	—
	29	" Shoe "	4	A.A.R.	ABS Fdry Co ord	—	—	—	—	—
	30	" " Key "	4	A.A.R. Std	—	—	—	—	—	—
	31	" Live Lever "	2	842 M-40	—	842 M-40	—	—	—	—
	32	" Dead " "	2	842 N-40	—	842 N-40	—	—	—	—
	33	" Bottom Rod "	2	842 B-89	—	842 B-89	—	—	—	—
	34	" Dead Lever Anchor Brkt " R L	1	842 C-92	—	842 C-92	—	—	—	—
	35	" " " Anchor "	2	842 B-90	—	842-B-90	—	—	—	—
	36	" Beam Support Brkt F. "	1	842 J-92	—	842 J-92	—	—	—	—
	37	" " " " R "	1	842 K-92	—	842 K-92	—	—	—	—
	38	" " " Center "	2	842 F-92	—	842 F-92	—	—	—	—
	39	" " " End "	4	842 L-92	—	842-L-92	—	—	—	—
	40	" " Safety Straps "	4	842 A-92	—	842 A-92	—	—	—	—
	41	" Beam "	2	842-B-93	With ½" x 3½" Washers	84 B-120	—	—	—	—
	42	" " Fulcrum "	6	"	—	84 A-119	—	—	—	—
	43	" Pins Hanger to Frame "	4	842 K-42	—	—	—	—	—	—
	44	" " " to Head "	4	842 B-37	—	—	—	—	—	—
	45	" " Levers & Hangers to Beam "	6	842-L-42	—	—	—	—	—	—
	46	" " Dead Lever & Bottom Rod "	10	842-S-42	—	—	—	—	—	—
	47	" " Bottom Rod "	2	842-H-37	—	—	—	—	—	—
	48									
	49									
	50									
	51									
	52									
	53									
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	55									
	56									
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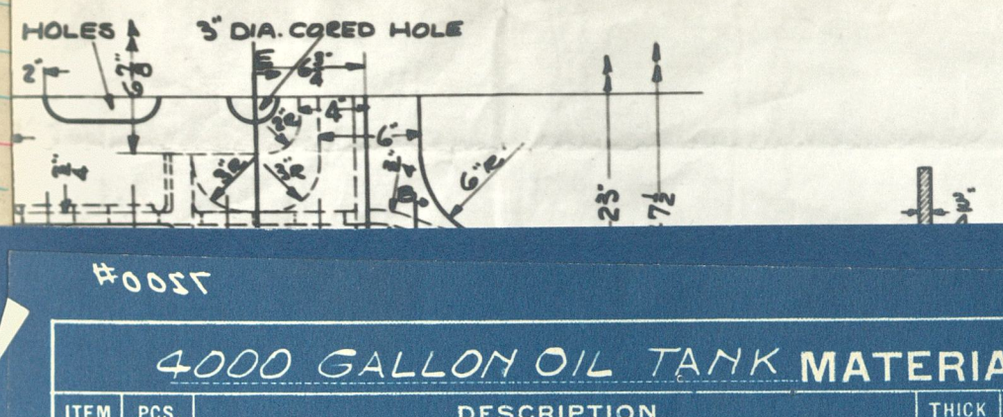
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron

Material Specifications



ISSUE	DATE	REVISION
A	6-1-36	DEPTH OF END SILL, LOCATION OF HORIZONTAL CONNECTING FLANGE, DIMENSION FROM ℄ DRAW BAR POCKET TO BOTTOM CHANGED. CORED HOLE FOR COUPLER CARRIER SHOWN
B	6-5-36	FINISHING NOTE RELATIVE TO FINISHING CHANGED COUPLER CARRIER BOLT

#0077

ED264

4000 GALLON OIL TANK MATERIAL

ITEM	PCS.	DESCRIPTION	THICK	WIDE	LONG	MATERIAL	APPROX. WEIGHT
1	2	OUTSIDE SIDES	3/8"	86½"	99"	TANK STEEL	2000
2	2	" ENDS	3/8"	86½"	124	" "	2500
3	1	TOP	3/8"	71"	167½"	COLD PRESSING QUALITY	1350
4	1	BOTTOM	3/8"	71"	167½"	" "	1350
5							
6							
7							
8							
9							
10							
11							
12							
13	8	4"x3"x3/8" TEE IRON 58½" LONG					
14	10	4"x3"x3/8" " " 81½" "					
15							
16							
17							
18							
19							
20							
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30							
31							
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34							
35							
36							

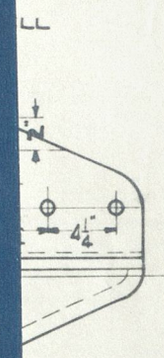
PREPARED C.R.A. | CHECKED C.R.A | APPROVED | MATERIAL ORDER 88-MO-128

LIMA LOCOMOTIVE WORKS, INCORPORATED, LIMA, OHIO — DATED 5-13-36

REVISION:-

"IMPERIAL" TRACING CLOTH K & E CO., N. Y.

C.O 1134



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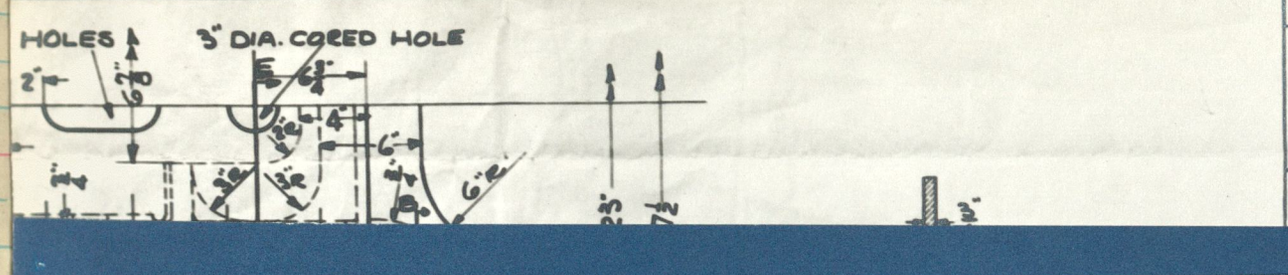
TY. ILL.

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron

Material Specifications



ISSUE	DATE	REVISION
A gj	6-1-36	DEPTH OF END SILL, LOCATION OF HORIZONTAL CONNECTING FLANGE, DIMENSION FROM ℄ DRAW BAR POCKET TO BOTTOM CHANGED. CORED HOLE FOR COUPLER CARRIER SHOWN
B	6-5-36	FINISHING NOTE RELATIVE TO FINISHING CHANGED COUPLER CARRIER BOLT

ED264

9500 GALLON WATER TANK MATERIAL

ITEM	PCS.	DESCRIPTION	THICK	WIDE	LONG	MATERIAL	APPROX. WEIGHT
1	2	OUTSIDES	1/4	76 1/2	265	TANK STEEL	3280
2	1	" REAR	1/4	76 1/2	179	" "	1110
3	2	" FRONT	1/4	76 1/2	87 1/2	" "	1080
4	1	TOP	5/16	120	360 1/2	" "	4450
5	1	BOTTOM	3/8	128	368	COLD PRESSING QUALITY	5650
6	2	INSIDE SIDES	5/16	74 1/2	174 1/2	TANK STEEL	1060
7	1	" REAR	5/16	68 1/2	74 1/2	" "	2490
8	1	TANK FUNNEL	3/16	13 1/2	107	" "	85
9	1	" " LID	3/16	22	45	" "	60
10	2	" COLLARS	1/4	29 1/2	230	" "	1060
11	2	TOOL BOX BACKS	1/4	26	43	" "	175
12	2	" " BOTTOMS	1/4	33	37	" "	95
13	2	DASH PLATES	1/4	30	122	" "	570
14	2	" "	1/4	30	64	" "	300
15	1	" "	1/4	74	83	" "	480
16	1	" "	1/4	40	74	" "	230
17	8	" "	1/4	21 1/2	74	" "	990
18	1	" "	1/4	15	74	" "	85
19	8	" "	1/4	21	26	" "	340
20	10	" "	1/4	12	26	" "	170
21							
22							
23							
24							
25	10	4 x 3 x 3/8 TEE IRON 115" LONG					
26	21	4 x 3 x 3/8 " " 72" "					
27	10	4 x 3 x 3/8 " " 74" "					
28	16	4 x 3 x 3/8 " " 25" "					
29							
30		40 FT. 3 x 3 x 3/8 ANGLE IRON					
31		200 FT. 2 1/2 x 2 1/2 x 3/8 " "					
32		10 FT. 2 x 2 x 1/4 " "					
33		90 FT. 7/16 x 1 1/2 HALF OVAL BEADING IRON					
34							
35							
36							

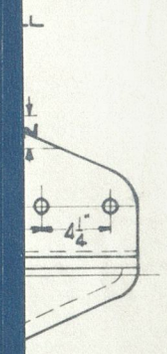
PREPARED	CHECKED	APPROVED	MATERIAL ORDER
G.J.	C.R.A.		88-MO-127

LIMA LOCOMOTIVE WORKS, INCORPORATED, LIMA, OHIO — DATED 5-13-36

REVISION:-

"IMPERIAL" TRACING CLOTH K & E CO., N.Y.

C.O. 1134



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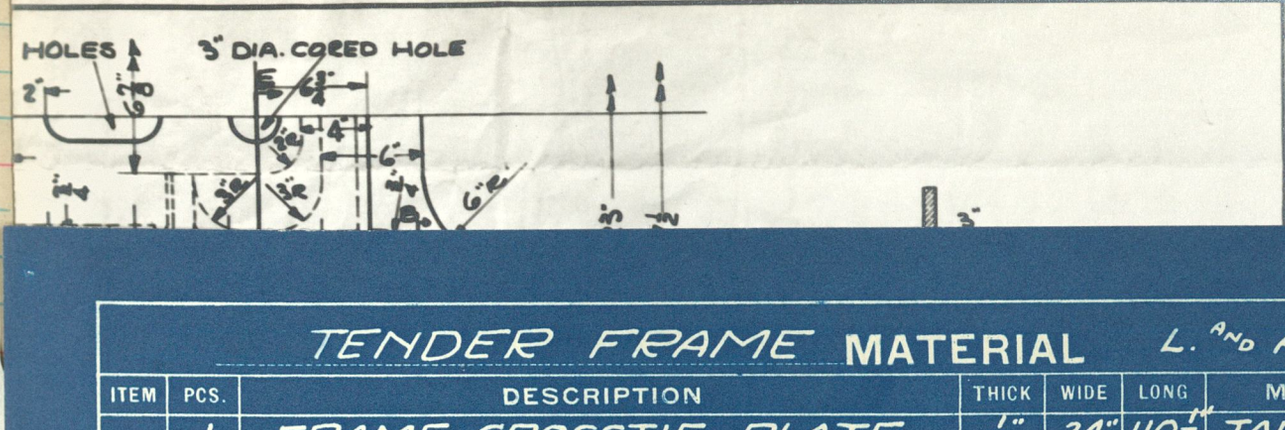
Y. ILL.

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron

Material Specifications



ISSUE	DATE	REVISION
A	6-1-36	DEPTH OF END SILL, LOCATION OF HORIZONTAL CONNECTING FLANGE, DIMENSION FROM ℄ DRAW BAR POCKET TO BOTTOM CHANGED. CORED HOLE FOR COUPLER CARRIER SHOWN
B	6-5-36	FINISHING NOTE RELATIVE TO FINISHING CHANGED [illegible]RRIER BOLT

ED264

TENDER FRAME MATERIAL L. AND A. - 1134.

ITEM	PCS.	DESCRIPTION	THICK	WIDE	LONG	MATERIAL	APPROX. WEIGHT
1	1	FRAME CROSSTIE PLATE	1/2"	24"	110 1/2"	TANK STEEL	
2	1	" " "	1/2"	18"	110 1/2"	" "	
3	1	" " "	3/8"	54"	110 1/2"	" "	
4	2	" " "	3/8"	33 1/2"	61 1/2"	" "	
5	1	" " "	3/8"	33 1/2"	39"	" "	
6	1	" " "	3/8"	23"	33 1/2"	" "	
7	2	" BOLSTER "	1/2"	40"	110 1/2"	" "	
8	2	" STIFFENING "	5/8"	13"	356"	" "	
9	16	" BOLSTER FILLING "	7/16"	21"	50"	" "	
10	4	" " TRUSS "	1/2"	12"	125"	" "	
11	2	" " " BRACE	3/4"	12"	66"	" "	
12	1	BRAKE CYLINDER SUPPORT	3/4"	12"	52"	" "	
13	2	FRAME BOLSTER TRUSS BRACE	3/4"	12"	70"	" "	
14							
15	1	FRAME ANGLE - 4" x 4" x 3/4" - 72" LONG.					
16	1	" " - 6" x 6" x 3/4" - 45" " .					
17	2	" BARS (TO CUT) - 1/2" x 3" - 188" LONG					
18							
19	2	OUTSIDE CHANNELS - 10" - 30# - 30' LONG					
20	2	INSIDE " - 13" - 50# - 29'-8" LONG					
21							
22							
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34							
35							
36							

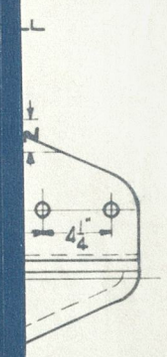
PREPARED L.V.H. | CHECKED G. J. | APPROVED

LIMA LOCOMOTIVE WORKS, INCORPORATED, LIMA, OHIO — DATED 5-29-36

MATERIAL ORDER 85-MO-24

REVISION:-

"IMPERIAL" TRACING CLOTH K & E CO. N.Y.



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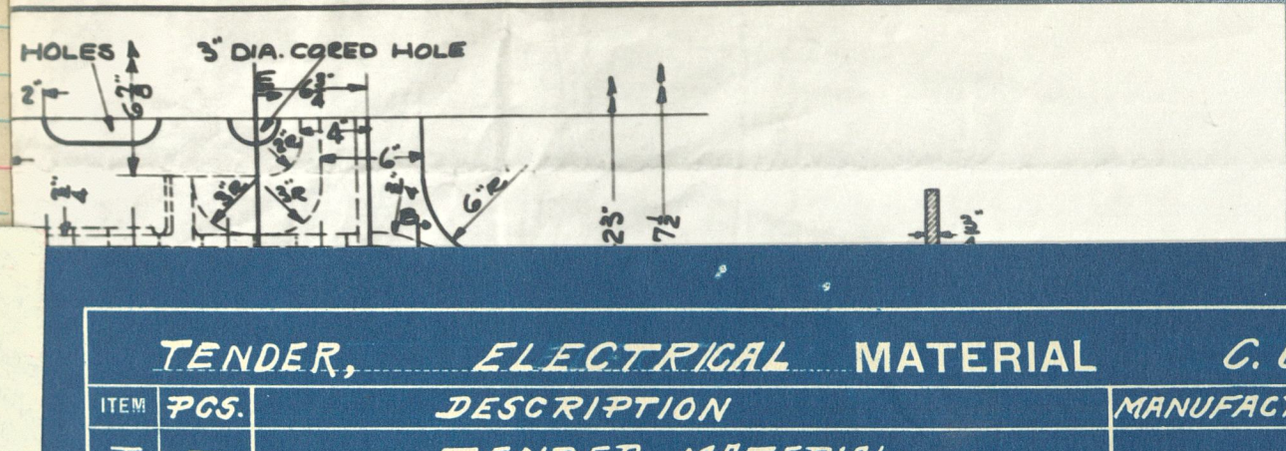
Y. ILL.

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron



ISSUE	DATE	REVISION
A GJ	6-1-36	DEPTH OF END SILL, LOCATION OF HORIZONTAL CONNECTING FLANGE, DIMENSION FROM ℄ DRAW BAR POCKET TO BOTTOM CHANGED. CORED HOLE FOR COUPLER CARRIER SHOWN
B GJ	6-5-36	FINISHING NOTE RELATIVE TO FINISHING CHANGED COUPLER CARRIER BOLT

ED265

TENDER, ELECTRICAL MATERIAL C.O. 1134

	ITEM	PCS.	DESCRIPTION	MANUFACTURE	CATALOG NO.
	1	—	TENDER MATERIAL		
	2	1	SCREW COVER FITTING	PYLE NAT.	STLR-22
	3	1	SCREW COVER FITTING	PYLE NAT.	STB-22
	4	1	SCREW COVER FITTING	" "	STT-222
A	5	1	RECEPTACLE	" "	CBR-22
	6	2	PLUGS	" "	CBP-14
	7	1	PLUG	" "	BP-40
	8	2	HOSE COUPLINGS	" "	HC-22
	9	2	HOSE CLAMPS FOR 2 PLY HOSE		
	10	5 FT.	2 PLY LAWN HOSE		
	11	45 FT.	CONDUIT PIPE		3/4"
	12	160 FT.	#14 HABIRSHAW WIRE	PHELPS DODGE CORP.	
	13	8 FT	#16-2 DELTABESTON HEATER CORD	GRAYBAR	STYLE-A
	14	1	100 WATT BULB 32 VOLT		
	15	2	15 WATT BULBS 32 VOLT		
	16	5	CONDUIT UNIONS	PYLE NAT.	CC-2
	17	1	RECEPTACLE	" "	CBL-22
	18				
	19				
	20				
	21				
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	35				
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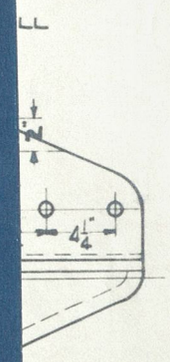
PREPARED DE | CHECKED CRA | APPROVED

LIMA LOCOMOTIVE WORKS, INCORPORATED, LIMA, OHIO DATED 6-8-36

MATERIAL ORDER 54-MO-148-A

REVISION:- A-6-12-36 G.J.

"IMPERIAL" TRACING CLOTH K & E CO. N.Y.



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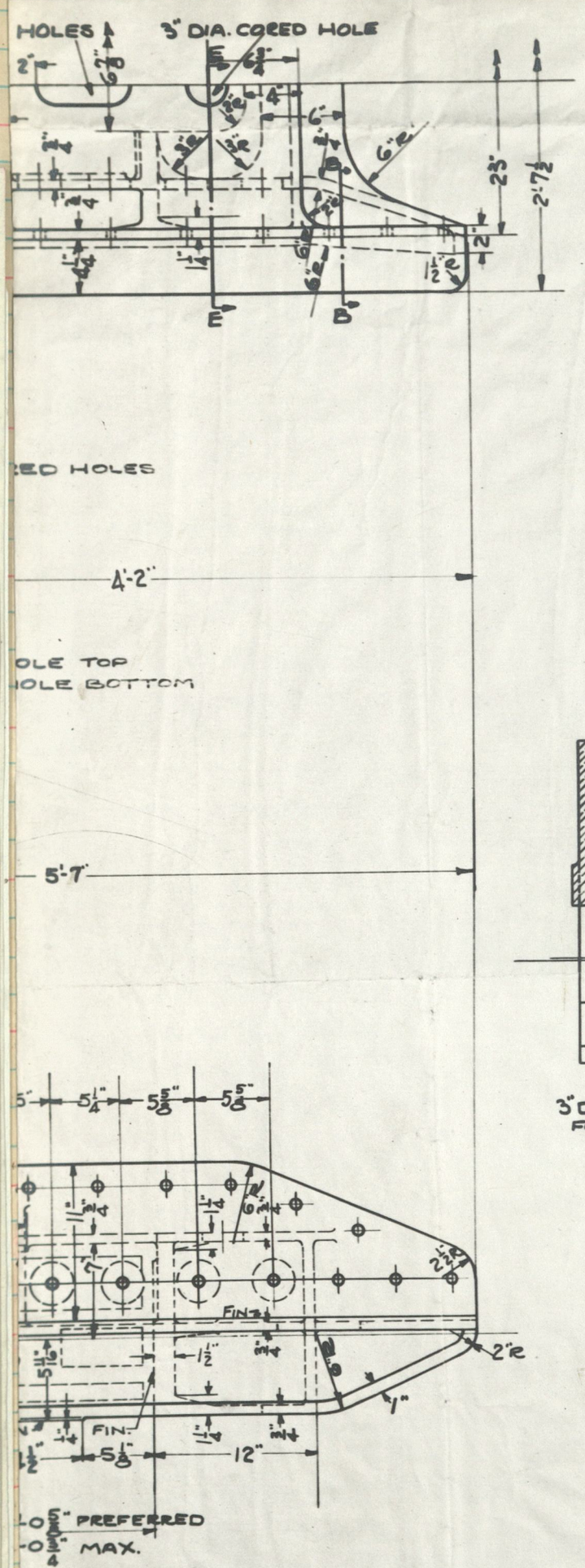
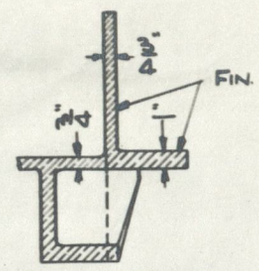
RATION
TY. ILL.

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron

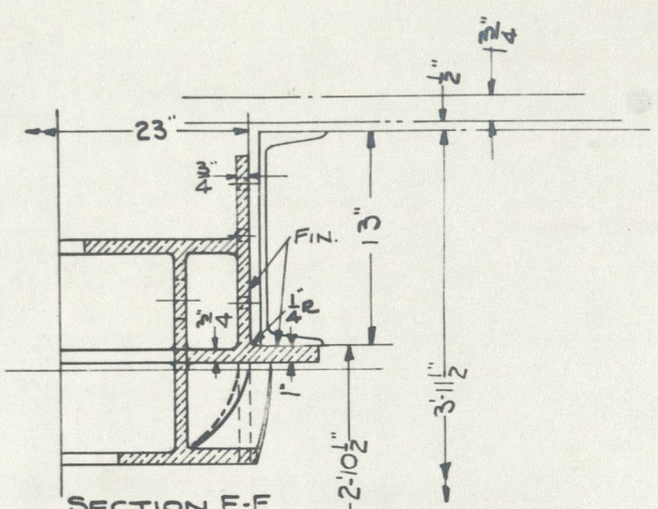
Material Specifications

ISSUE	DATE	REVISION
A GJ	6-1-36	DEPTH OF END SILL, LOCATION OF HORIZONTAL CONNECTING FLANGE, DIMENSION FROM ℄ DRAW BAR POCKET TO BOTTOM CHANGED. CORED HOLE FOR COUPLER CARRIER SHOWN
B GJ TRG	6-5-36	FINISHING NOTE RELATIVE TO FINISHING CHANGED COUPLER CARRIER BOLT RELOCATED
C	6-12-36	REVISED
D RES	6-17-36	REVISED

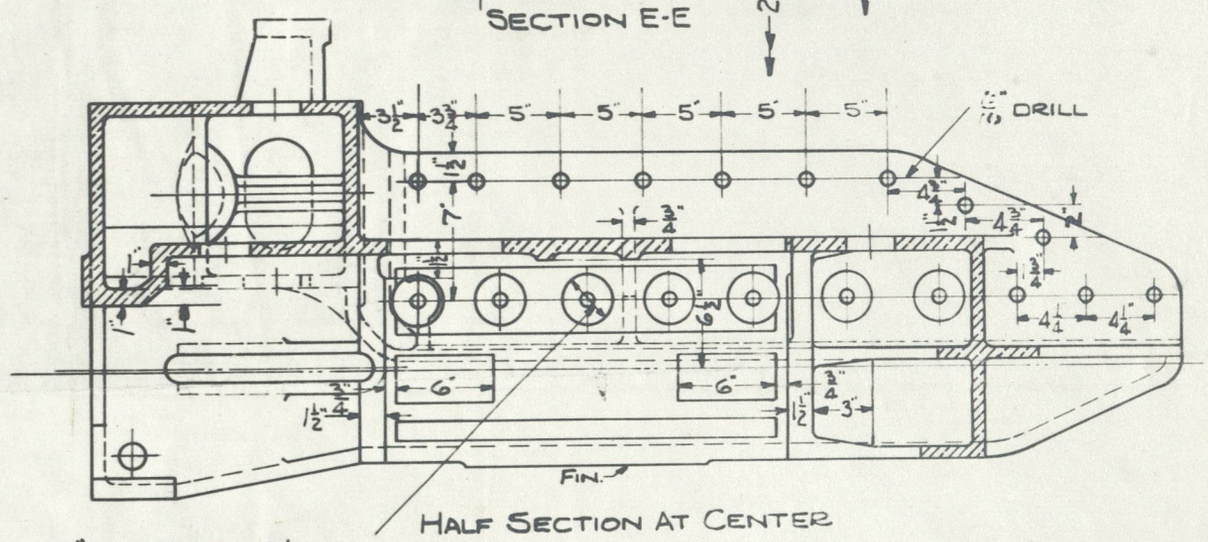




SECTION B-B



SECTION E-E



HALF SECTION AT CENTER

3" DIA. CORED HOLES FOR DRIVING RIVETS

L & A 1134

NOTE—
ALL BOLT AND RIVET HOLES TO BE LOCATED AND DRILLED BY TENDER BUILDER EXCEPT AS NOTED. ALLOW FOR MACHINE FINISH ON ALL SURFACES MARKED "FIN". ALL MACHINE FINISHING TO BE DONE BY TENDER BLDR.

51302

A B C D

EDDYSTONE MAY 22, 1936

GENERAL STEEL CASTINGS CORPORATION
EDDYSTONE, PA. GRANITE CITY, ILL.

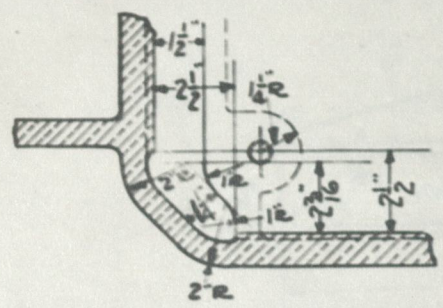
CAST STEEL
REAR END SILL
AND
DRAFT GEAR POCKET
FOR
LOUISIANA & ARKANSAS ?

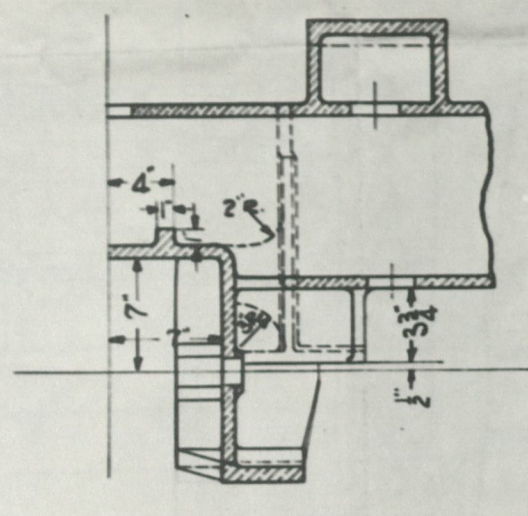
PATENTED

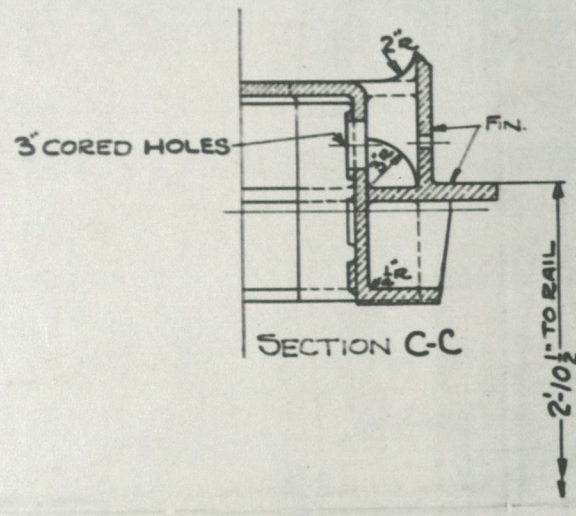
Dr. 51302-1

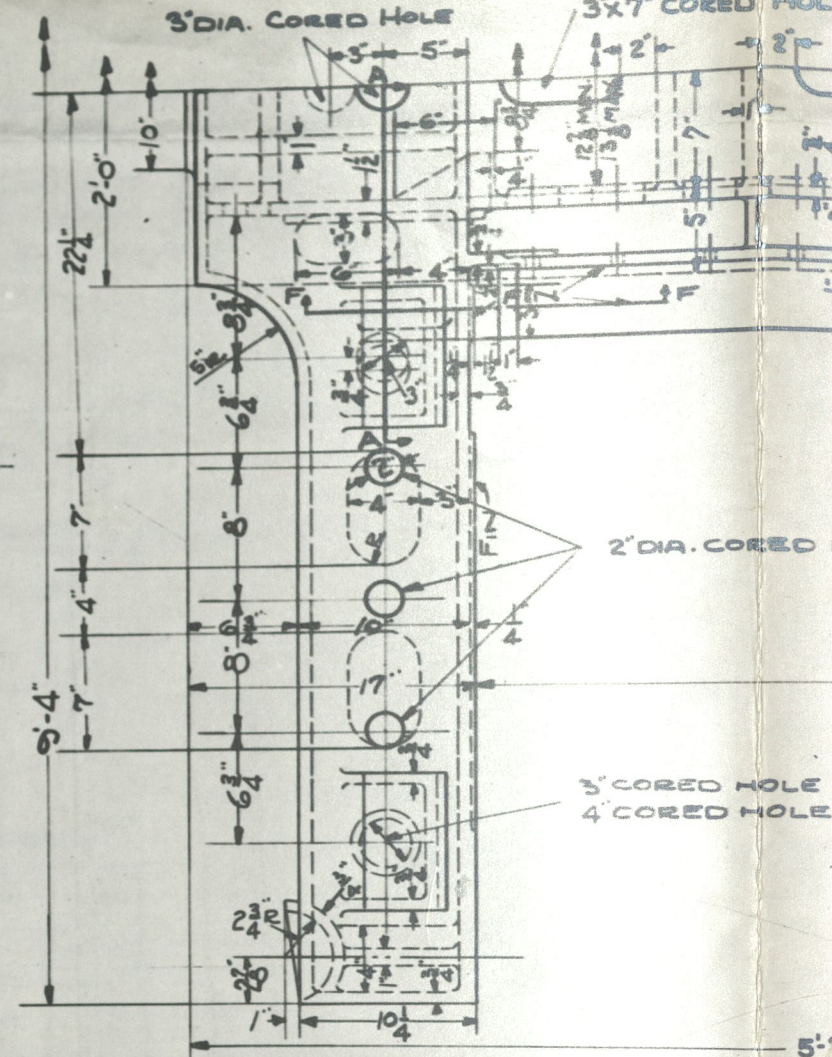
Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron

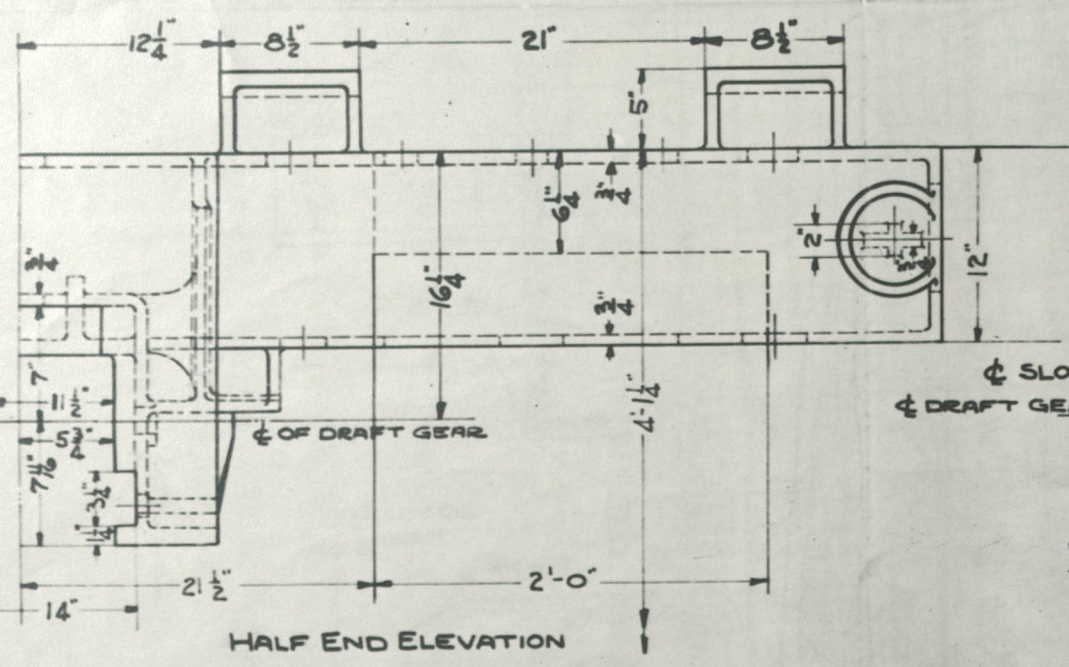
ISSUE	DATE	REVISION

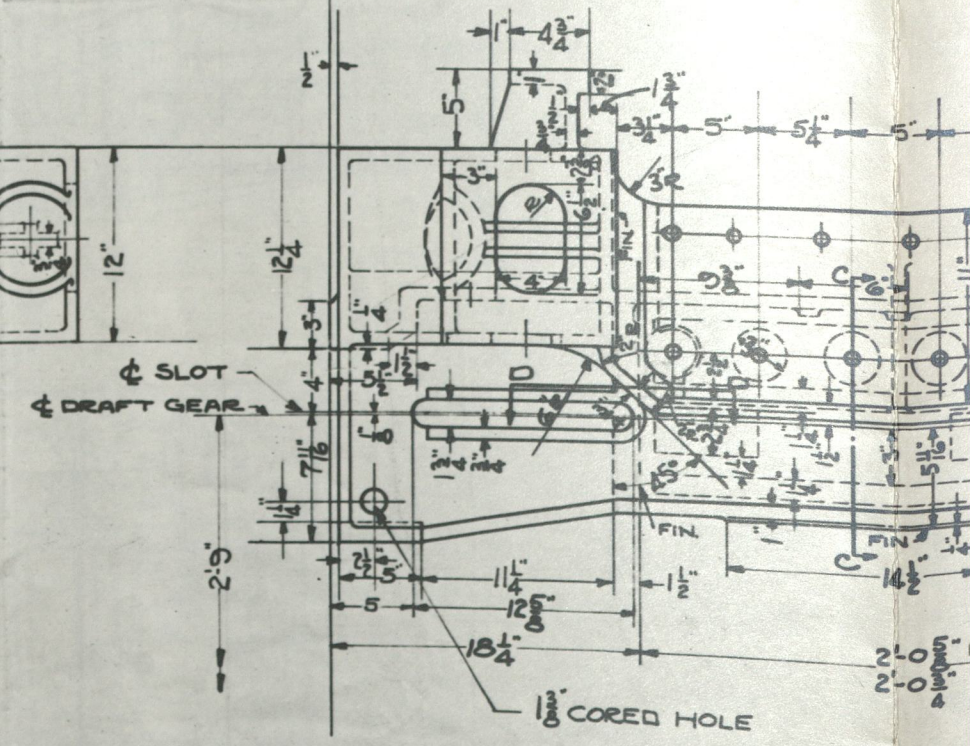


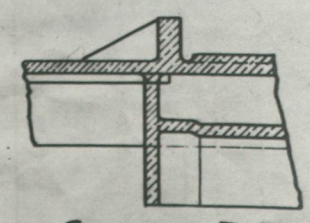












PATT. Nº. 5

D	FEB.
T	DRW.
C	JG.

21669-1

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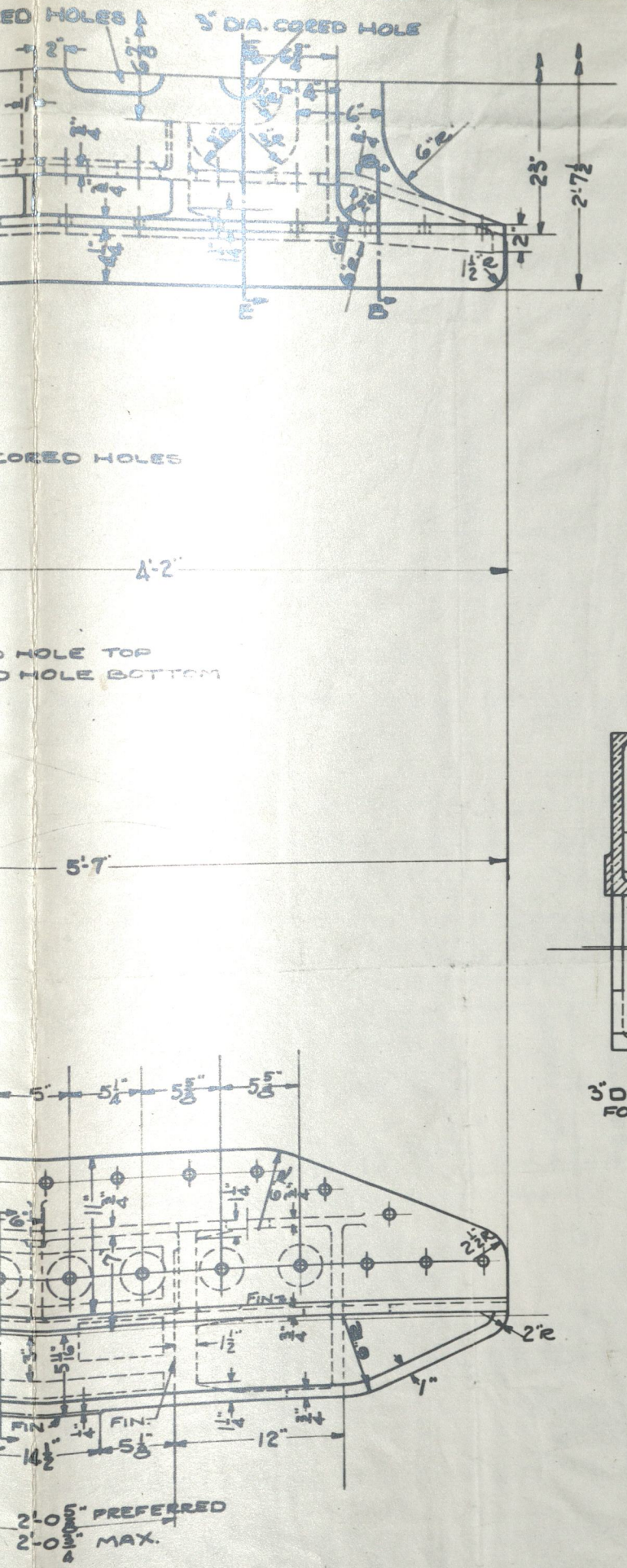
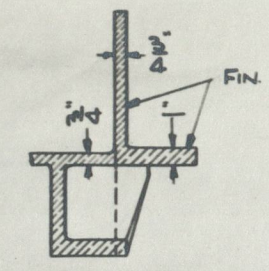
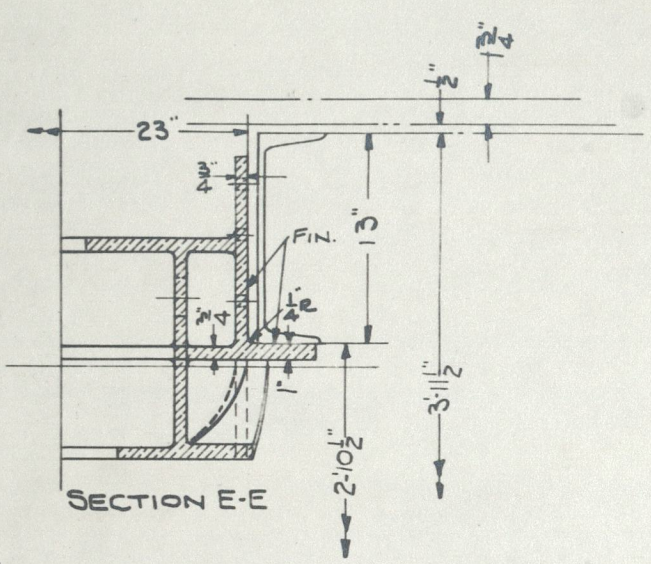
Material Specifications

ISSUE	DATE	REVISION
A GJ	6-1-36	DEPTH OF END SILL, LOCATION OF HORIZONTAL CONNECTING FLANGE, DIMENSION FROM ℄ DRAW BAR POCKET TO BOTTOM CHANGED. CORED HOLE FOR COUPLER CARRIER SHOWN
B GJ TRG	6-5-36	FINISHING NOTE RELATIVE TO FINISHING CHANGED COUPLER CARRIER BOLT RELOCATED
C	6-12-36	REVISED
D RSS	6-17-36	REVISED

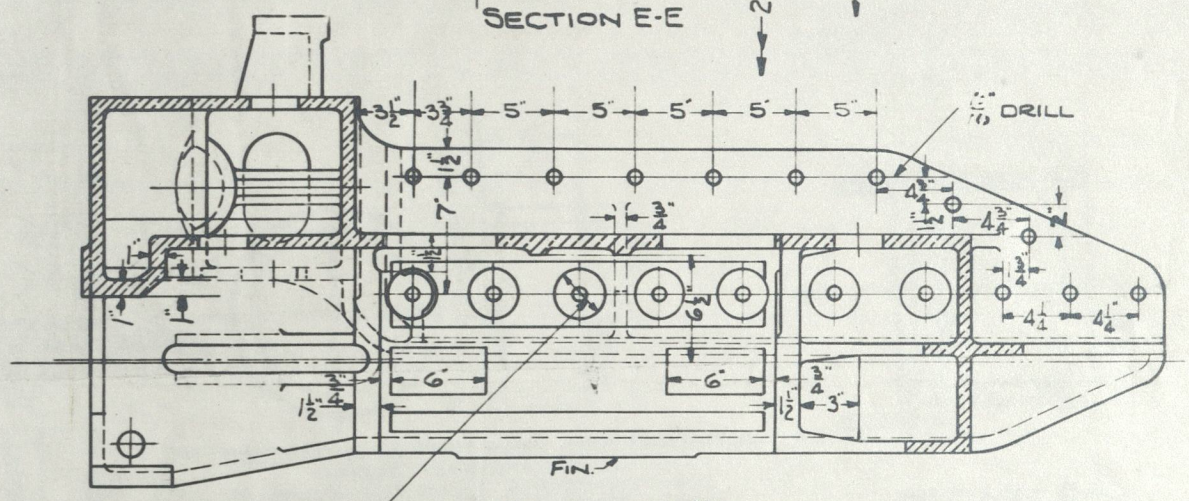




SECTION B-B



SECTION E-E



HALF SECTION AT CENTER

3" DIA. CORED HOLES FOR DRIVING RIVETS

L×A 1126

NOTE—
ALL BOLT AND RIVET HOLES TO BE LOCATED AND DRILLED BY TENDER BUILDER EXCEPT AS NOTED. ALLOW FOR MACHINE FINISH ON ALL SURFACES MARKED "FIN." ALL MACHINE FINISHING TO BE DONE BY TENDER BLD'R.

51302

A B C D

EDDYSTONE MAY 22, 1936

GENERAL STEEL CASTINGS CORPORATION
EDDYSTONE, PA. GRANITE CITY, ILL.

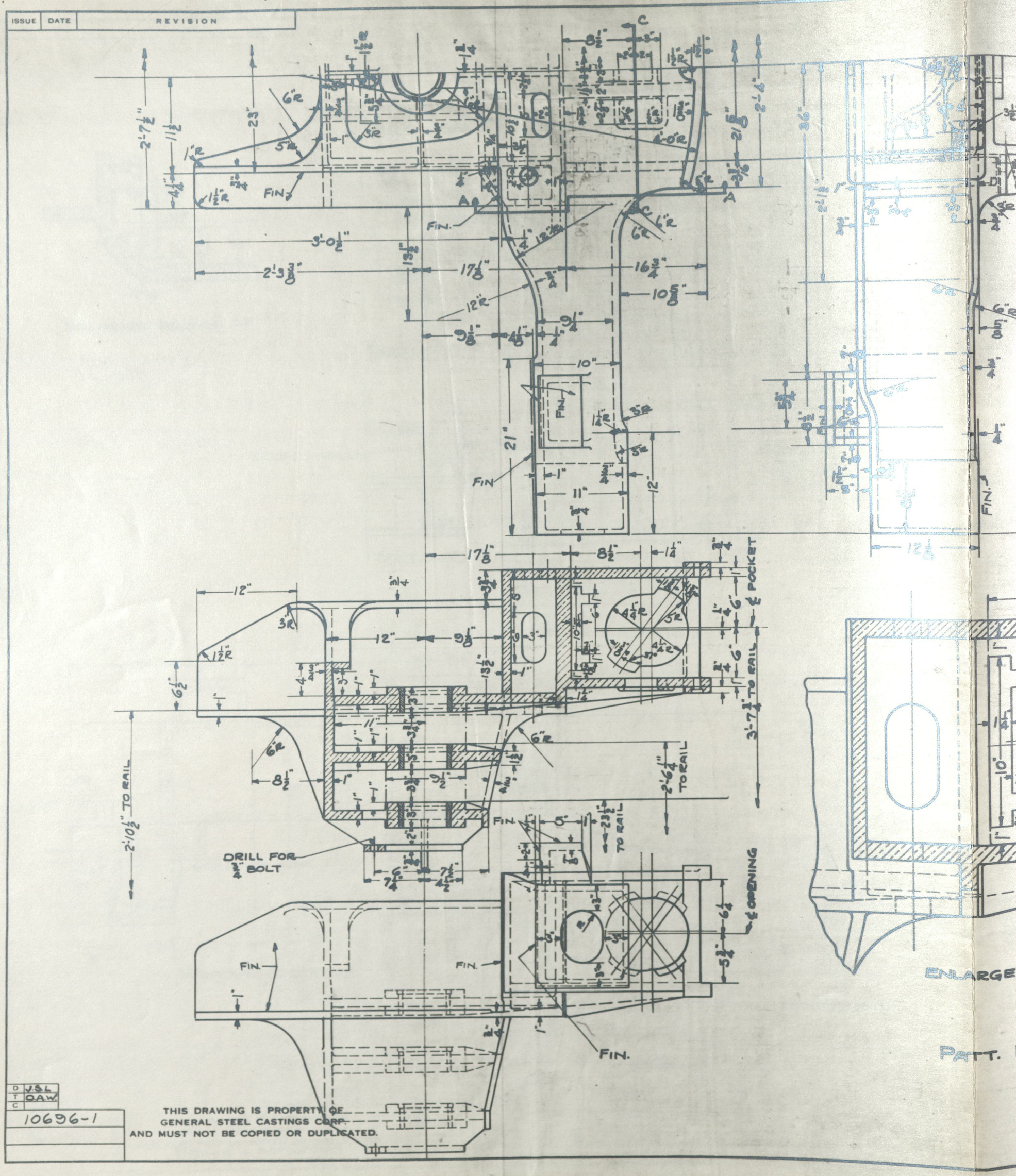
CAST STEEL
REAR END SILL
AND
DRAFT GEAR POCKET
FOR
LOUISIANA & ARKANSAS ?

PATENTED

No. 51302-1

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron

ISSUE | DATE | REVISION



D	V.S.L.
T	O.A.W.
C	

10696-1

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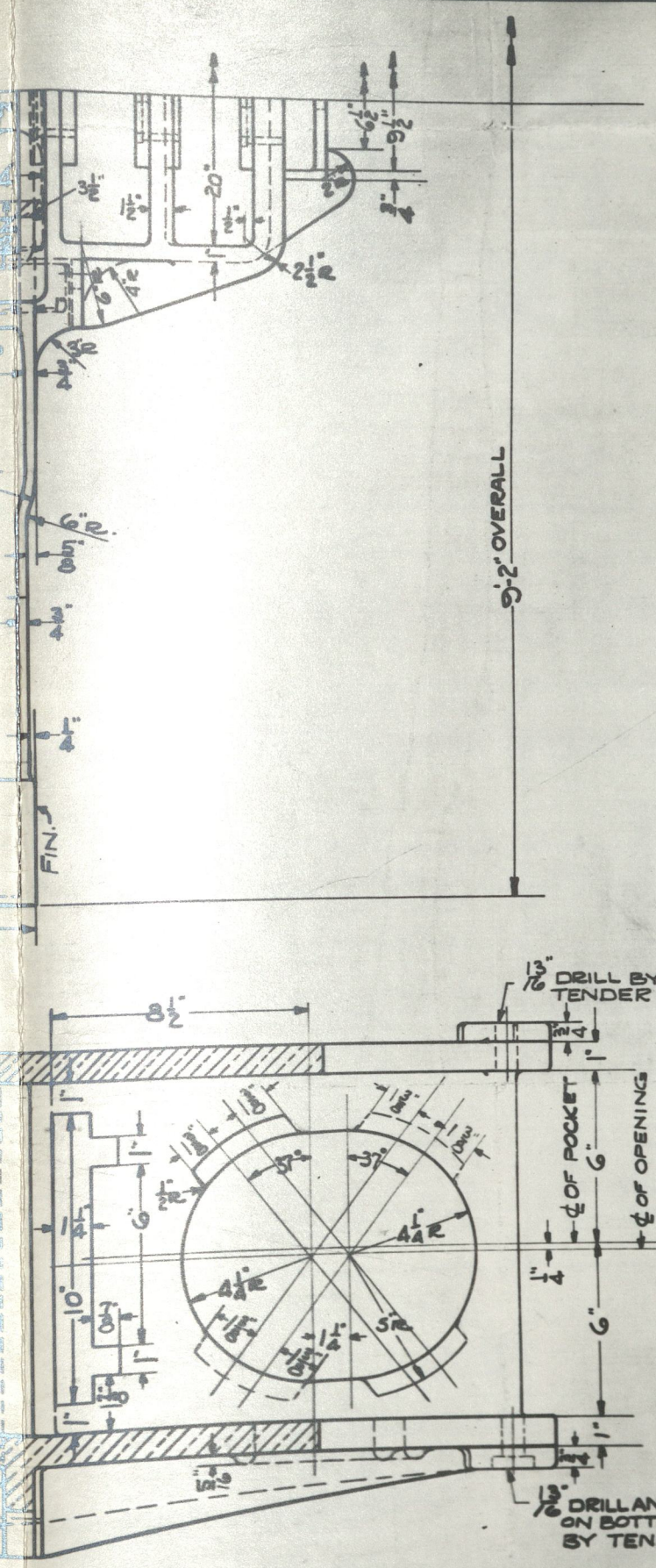
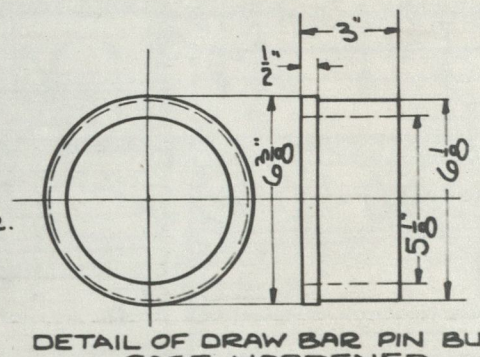
Material Specifications

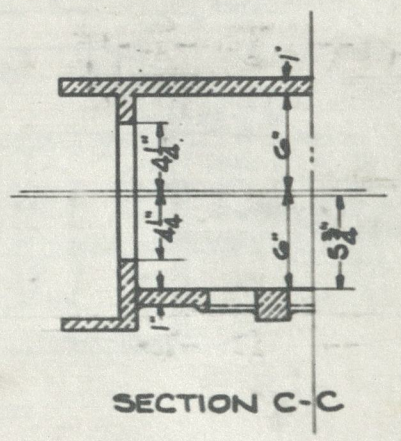
ISSUE	DATE	REVISION
A	5-27-36	FINISH ADDED TO REAR OF END SILL OVERALL DIMENSION SHOWN
B	6-1-36	RAD. INDICATING CONTOUR BUFFER POCKET SHOWN. RIBS ADDED IN DRAW BAR POCKET. DIM. ADDED.
C	6-4-36	HOLES FOR SHIMS IN BUFFER POCKET SHOWN IN SIDES INSTEAD OF TOP AND BOTTOM. WIDTH OF FRONT MEMBER OF END SILL AT ENDS CHANGED FROM 9 1/16 TO 8 1/2". TOP OF END SILL CHANGED.
D	6-9-36	RADIAL BUFFER POCKET CORRECTED. DIMENSIONS ADDED
E	7/1/36	BUSHING SHOWN PRESSED IN PLACE BY TENDER BLDR. MACHINE FINISHING SHOWN BY TENDER BLDR.



ARGED SECTION A-A



DETAIL OF DRAW BAR PIN BUSHING
CASE HARDENED
FURNISHED AND PRESSED IN
PLACE BY TENDER BLDR.



SECTION C-C

L&A, 1134

NOTE :-
ALL BOLT AND RIVET HOLES TO BE LOCATED AND DRILLED BY TENDER BUILDER EXCEPT AS NOTED.
ALLOW FOR MACHINE FINISH ON ALL SURFACES MARKED "FIN."
ALL MACHINE FINISHING TO BE DONE BY TENDER BLDR.

L&A 1134

51301	E
EDDYSTONE MAY 21, 1936	

GENERAL STEEL CASTINGS CORPORATION
EDDYSTONE, PA. GRANITE CITY, ILL.

CAST STEEL
FRONT END SILL AND DRAW BAR POCKET
FOR
LOUISIANA & ARKANSAS RR.

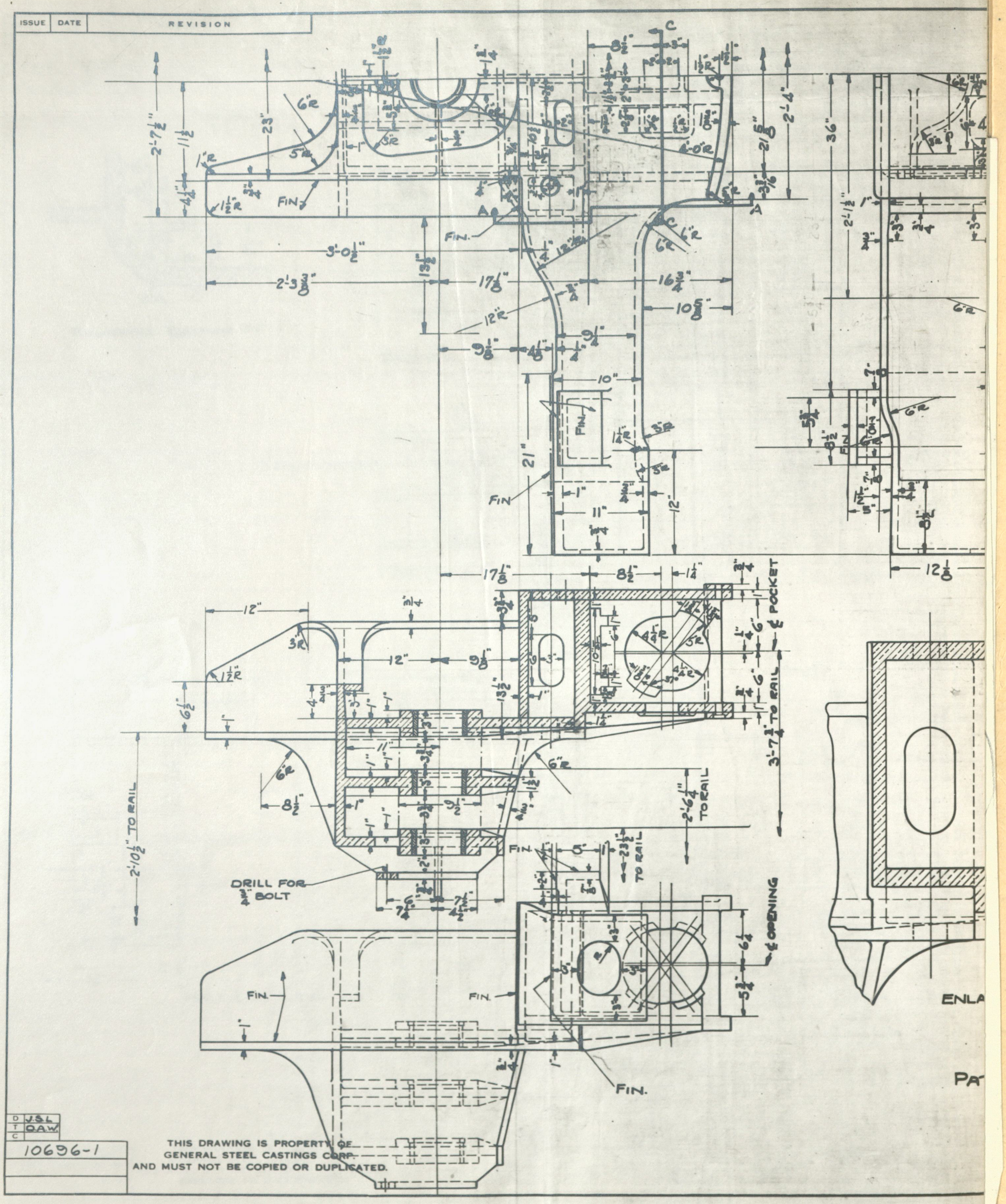
TENDERS
2-8-2 TYPE LOCO'S.

PATENTED

TT. No 51301-1

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron

ISSUE | DATE | REVISION



D	V.S.L.
T	O.A.W.
C	

10696-1

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Material Specifications